

AXIALLY FIXED DISK CARRIER ASSEMBLY

ABSTRACT

A disk carrier assembly for a multi-disk clutch includes a drive plate having a plurality of radially extending load teeth and a plurality of radially extending bearing teeth alternately disposed about the circumference of the drive plate. A disk carrier is included that has an axially cylinder segment with a plurality of axial protrusions that extend radially inward and are alternately disposed about the segment with plurality of axial grooves that extend radially outward. The axial grooves are adapted to radially retain a plurality of clutch disks while allowing operative axial movement. The plurality of axial protrusions further include a plurality of axial load protrusions alternately disposed between a plurality of axial bearing protrusions, each of the axial load protrusion have a load tooth cutout formed on its axial end and each of the axial bearing protrusion have an elongated area with an annular retaining groove.